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## 1931

HEATING AND VENTILATING

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**New Dust Eliminator Tested in New York,** Aug., 80.

**A.S.M.E. Appoints Pure Air Committee,** Sept., 92.

**A.S.M.E. Pure Air Committee Publishes its Objectives,** Dec., 73.

**Smoke Abatement Commission Formed in Duluth,** Dec., 75.

## Air Conditioning and Ventilation

**Chicago Engineers Hear Talk on Aerology,** Feb., 91.

**Goodwin Addresses New York Chapter of A.S.H.V.E. on Theater Air Conditioning,** Mar., 91.

**Air Conditioned Train to be Put in Service,** Mar., 93.

**A.S.A. Safety Code for Mechanical Refrigeration Available,** Apr., 103.

**Pullman Company Issues Bulletin on Ventilation,** Apr., 109.

**Three Houses to be Cooled with Gas,** Apr., 109.

**Printing Experts Discuss Air Conditioning,** Apr., 110.

**California to Have Air Conditioned Hotel,** May, 102.

**Bill for Changing New York School Ventilation Law Vetoed,** May, 103.

**Olchoff to Address A.S.R.E. on Air Conditioning,** May, 103.

**Difficulties Encountered in Building Windowless Factory,** May, 104.

**British Parliament Members Ask for Better Ventilation,** June, 99.

**Financial Writer Lauds Idea of Air Conditioned Trains,** June, 101.

**Air Conditioning Discussed at A.S.R.E. Meeting,** June, 102.

**White House Cooling System Installation Postponed,** July, 98.

**Motion Picture Engineers Discuss Noise and Ventilation,** Aug., 76.

**Pennsy Equips Air Cooled Diner,** Aug., 79.

**British Engineers to Build "Controlled Weather House,"** Aug., 79.

**Tunnel Builders Forget Ventilation,** Sept., 92.

**Cleveland Reports Increased Use of Ice for Air Cooling,** Oct., 82.

**Pennsylvania Railroad Operates Five Ice Cooled Diners,** Nov., 79.

**Federal Buildings in Washington to be Air Conditioned,** Dec., 76.

## Book Reviews

**Fundamentals of Heating,** A. M. Daniels, Mar., 84.

**Heating and Ventilation,** John R. Allen and J. H. Walker, Apr., 98.

**Standard Manual on Pipe Welding,** H.P.C.N.A. Committees and S. Lewis Land, Apr., 98.

**Measurements for Pipe Tradesmen,** Edward Bittel, Apr., 98.

**Designing Heating and Ventilating Systems,** Charles A. Fuller, Apr., 99.

**Handbook of Oil Burning,** Harry F. Tapp, May, 92.

**Methods of Economy and Care of a Building,** T. C. Wooton, May, 95.

**Domestic Gas Appliances,** A. M. Apmann, July, 93.

**The Realm of the Air,** Charles F. Talman, Aug., 71.

**Modern Combustion, Coal Economics, and Fuel Fallacies,** Clarence V. Beck, Aug., 71.

**Flow and Measurement of Air and Gases,** A. B. Eason, Oct., 78.

**Aerology for Amateurs and Others,** E. Vernon Hill, Oct., 79.

**Trade Associations—Their Services to Education,** S. Lewis Land, Oct., 79.

## Correspondence

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**A Westerner's Comment on the School Building Reference Number,** Jan., 97.

**Automatic Controls,** Jan., 99.

**Maintaining 70° with a Vacuum Return Line System,** Jan., 99.

**Characteristics of Unit Heaters,** Feb., 80.

**Ventilation Laws,** Feb., 80.

**Injector Used for Creating Vacuum,** Feb., 80.

**Warm-Air Heating and the Degree Day,** Feb., 81.

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**Ventilation Laws,** Feb., 81 and 83.

**Steam Load Follows Degree Day Curve in Apartments in New York Suburban Territory,** Mar., 96.

**A Problem in Ventilation,** Mar., 97.

**Heating Industrial Buildings with Gas,** Mar., 97.

**Differential Vacuum Heating Systems,** Mar., 98.

**Dunham Differential Patents,** May, 98.

**Equivalent Diameters for Rectangular Ducts,** May, 98.

**Further Comment on Ventilation Laws,** May, 98.

**Maintaining 70° with Vacuum Return Line,** May, 99.

**Relative Humidity in "Dry" Climates,** May, 99.

**Rack Presents Rebuttal in Insulation Thickness Discussion,** July, 92.

**Favors Low Oil-Fired Boiler Ratings,** Aug., 82.

**Degree Day as an Estimating Unit,** Aug., 82.

**Degree Days for New York,** Aug., 82.

**English Engineer Favors Radiant Heating from Ceiling,** Oct., 87.

**Nominal vs. Actual Diameters in Water Supply Piping Design,** Oct., 87.

**In Defense of Society Research,** Oct., 89.

**Designing Water Supply Piping,** Oct., 91.

**Consulting Engineers for New York Buildings,** Oct., 92.

**Air Conditioning Factors for Residential Application,** Nov., 80.

**Use of Nominal Diameters in Water Supply Piping Design,** Nov., 81.

**Air Conditioning and the Consulting Engineer,** Dec., 79.

## District Heating

**Boston Selected for N.D.H.A. Convention,** Jan., 102.

**District Heating Developments in Winnipeg,** Feb., 93.

**Boston Edison Extends Heating Plant,** Mar., 89.

**Dayton has Sixth Largest District Heating System,** Mar., 90.

**District Heating Plant for North Tonawanda,** Apr., 104.

**Newark May Have District Heating,** June, 95.

**Twenty-Second Convention of N.D.H.A. to be Held at Boston,** June, 96.

**New Plant will Heat 26 Government Buildings,** June, 99.

**North Tonawanda to Have District Steam,** June, 101.

**Optimism of Utilities Reflected at District Heating Convention,** July, 97.

**New York Steam Gets Government Contracts,** Sept., 92.

**Winnipeg Has New Hydro Plant,** Oct., 83.

**District Steam for Pennsylvania Station, N. Y.,** Nov., 78.

**District Heating Subject of Pittsburgh Meeting,** Dec., 77.

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**Steel Heating Boiler Institute Issues Revised Rating Code,** Feb., 92.

**Heating Applications Play Prominent Part at Fuels and Power Meeting,** Mar., 89.

**Battelle Memorial Institute Carries on Research in Fuels and Metals,** Apr., 104.

**Extension Course in Combustion Given in Indiana,** July, 104.

**Bureau of Mines Reports Fuel Consumptions,** Sept., 9

**A.O.B.A. to Set Uniform Method of Determining Boiler Load,** Dec., 77.

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**Committee of Ten Expands Activities,** Jan., 100.

**Anthracite Club Expects 1000 at Annual Meeting,** Jan., 102.

**Coal Research Laboratory Started at Carnegie Institute of Technology,** Jan., 109.

**Bituminous Coal Conference to be Held Next November,** Jan., 109.

**The Automatic Stoker for Heating Service, using Illinois Coal,** Jan., 109.

**Coal Production Decreased in 1930,** Feb., 92.

**Cincinnati Association of Allied Solid Fuel Heating Industries Formed,** Feb., 93.

**Councillor Plan Organized to Aid Coal Retailers,** Mar., 91.

**Illinois Tests Coal Boilers,** Mar., 92.

**Second Midwest Coal Conference to be Held at Illinois,** Mar., 93.

**Minneapolis Prepares for Cooperation between Coal and Heating Industries,** Apr., 103.

**Anthracite Laboratory Issues List of Approved Stokers,** Apr., 104.

**Says Liquid Coal is Only Hope of Coal Industry,** Apr., 105.

**Committee of Ten Opens Chicago Office,** Apr., 107.

**Bituminous Coal Used for Heating is 20% of Total Consumption,** May, 103.

**Purdue Stoker Tests Available,** June, 95.

**Committee of Ten to Study Stoker Sales,** June, 99.

**Anthracite Club Formed in Philadelphia,** June, 102.

**New York Body Asks Inquiry into Coal Prices,** July, 100.

**Heating Stokers Discussed at Midwest Bituminous Coal Conference,** July, 101.

**Canada Buying More Anthracite from United States,** July, 103.

**Committee of Ten Gets New Members,** July, 103.

**Fitts Addresses Anthracite Club,** July, 103.

**Chicago Anthracite Coal Service Organizes School,** July, 104.

**Worker Remains President of Stoker Manufacturers,** July, 105.

**Hildreth Elected President of Philadelphia Anthracite Club,** Aug., 80.

**Walker Represents A.S.H.V.E. on Committee of Ten,** Sept., 94.

**Bituminous Coal Experts to Meet November 16,** Oct., 84.

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**Estimating Gas Consumption on Degree Day Basis,** Jan., 100-A.

**Additional Boilers, Furnaces and Radiators Approved by A.G.A.,** Jan., 101.

**Canadians Plan 400-Mile Natural Gas Line,** Jan., 102.

**Sales of Conversion Burners Depend on Gas Rate,** Feb., 98.

**New Project for Gas Burning Appliances,** Mar., 89.

**Smaller Homes Adopting Gas House-Heating in New York,** Apr., 107.

**Development of 200 Homes to be Heated by Gas,** May, 100.

**Gas House-Heating Increases,** May, 103.

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Purdue to Hold Short Gas Heating Course, May, 104.
324 Manufactured Gas Companies Have House-Heating Rates, May, 104.
Gas Pipe Line for Central Pennsylvania, June, 95.
Southwest Makes Complaints on High Gas Bills, June, 99.
Short Course in Gas Engineering to be Held at University of Illinois, June, 102.
Gas House-Heating Customers Increase 15.5% in New England, July, 100.
Birmingham Gets New House Heating Rates, Aug., 79.
Indiana Utility to Exhibit Gas Appliances, Sept., 94.
World's Largest Gas Pipe Line Opens, Oct., 82.
A.G.A. Convention Scheduled for October 12-16, Oct., 85.
A 28% Increase in Gas Heating Reported at Thirteenth Convention of A.G.A., Nov., 76.

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Domestic Oil Burners Listed by Underwriters' Laboratories, Jan., 103.
New Development Equips 500 Homes with Oil Burners, Jan., 124.
Field Engineer Engaged by A.O.B.A., Feb., 91.
Oil Burners and School Equipment Discussed by Detroit Engineers, Feb., 93.
A.O.B.A. Votes Increased Appropriation for Research, Feb., 94.
Oil Burning Boiler and Concealed Radiator Codes Adopted, Mar., 91.
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Oil Burning Ordinance Adopted by 39 Cities, Apr., 107.
New York Fuel Oil Rules Amended, Apr., 109.
National Canadian Oil Group Proposed, Apr., 109.
Oil Burner Dealers Organize at A.O.B.A. Convention, May, 101.
N.F.P.A. Revises Oil Burner Booklet, May, 104.
O. P. Harris to Head Oil Burner Dealers, June, 95.
Cities Adopt New Oil Burner Ordinances, June, 96.
Oil Burner Manufacturers to Hold Trade Conference, July, 98.
24% of Oil Burner Dealers Did 80% of 1930 Business, July, 102.
A. W. Clark Heads Oil Burner Dealer Division, Aug., 81.
A.O.B.A. Selects Boston as 1932 Convention City, Sept., 92.
A.O.B.A. Convention Papers Bound in Pamphlet Form, Sept., 94.
Eighteen States Have 91% of Oil Burners, Oct., 83.
A.O.B.A. Protests Award of Federal Contract to Steam Utilities, Nov., 78.
Fuel Oil Pipe Lines Planned, Dec., 75.
Oil Burners for Warm-Air Furnaces to be Feature of Exposition, Dec., 77.

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Engineers Recommend Elimination of "Or Equal" Clause, Apr., 103.
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Prize Awards for Quantity Surveyors, May, 104.
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Black Hills Asbestos Supply Reported Favorable, Oct., 84.

## Hot Water, Steam and Warm-Air Heating

French Addresses Western New York Chapter on Unit Heaters, Feb., 91.
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Cosgrove, Wallace M., July, 105.
Crane, Richard T., Dec., 78.
Cross, Dr. Walter M., Apr., 110.
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Geoghegan, Walter F., Jan., 89.
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Gross, Robert J., Jan., 89.
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Henry, Alfred J., Dec., 78.
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Keefe, Richard T., Feb., 83.
Mager, Arthur P., Dec., 78.
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Stratton, Dr. Samuel Wesley, Dec., 78.
Wheeler, Frank E., Mar., 95.
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## Piping Installation and Welding


Welding to be Taught at Albany, Jan., 100.

Form Welding Society in St. Louis, Mo., Mar., 92.

Welding Economics Excites Discussion at Illinois Meeting, Mar., 94.

Code for Pressure Piping, Apr., 101.

Zink Discusses Welding at A.W.S. Meeting, May, 102.

Zink Condemns Questionable Welding Practices, June, 101.

Booklet on Wrought-Iron Pipe Nipples Available, July, 98.

Progress in Codification of Piping Requirements for District Heating, July, 105.

Pipe Welding Papers Presented at A.W.S. Meeting, Oct., 82.

Corrosion Discussed by New York Engineers, Dec., 76.


## Professional, Ethics, and Trade Conditions


Wages and Conditions in Steam Fitting Trade Vary Widely, Jan., 100.

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Manufacturer Attempts to Eliminate Defensive Selling, Jan., 124.

Activities of Heating Board of Trade Featured at Building Congress, Feb., 89.

Nygren to be 1931 President of Heating Board of Trade of New York, Feb., 91.

Better Business Bureau Issues Specifications for Dwellings, Feb., 92.

Business Conditions Discussed at Michigan Chapter, Feb., 93.

Presidents and Secretaries Discuss Regional Management Conferences, Feb., 94.

Simplified Practice Recommendation on Pipe and Valves Reaffirmed, Feb., 98.

Leather Belting Specifications to be Standardized, Mar., 89.

Over-due Accounts to be Listed by Heating Board, Apr., 105.

Heating Board of Trade to Incorporate, Apr., 105.

H.P.C.N.A. Initiates Merchandising Campaigns, Apr., 108.

Cincinnati Certified Heat Plan May be Extended, May, 102.

Delegates from 50 Cities Will Attend H.P.C.N.A. Convention, May, 105.

New Bookkeeping System for Small Shop Offered by P. & H.I.B., June, 95.

University of Utah Teaching Heating and Combustion by Mail, June, 95.

Spitzley Elected President of H.P.C.N.A. at Annual Convention, June, 100.

Federal Trade Commission to Investigate Letting of Government Building Contract, July, 98.

New York State Amends Professional Engineers License Law, July, 98.

U. S. Comptroller's Decision Hits Shopping of Bids, July, 100.

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Bradstreet's Predicts Recovery in Building Trades, July, 104.

Reports of Investigational Work Predominate at A.S.H.V.E. Summer Meeting, Aug., 77.

Government Needs Heating Engineers, Aug., 81.

Labor Statistics Show Trend Toward Apartment Houses Since 1921, Sept., 92.

Fan and Unit Heater Sales Reported by Census Bureau, Sept., 96.

Plumbing and Heating Institute Goes Out of Existence, Sept., 96.

Rutgers Opens Home Study Course in Heating, Oct., 83.

Land Gets Doctor's Degree, Oct., 84.

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## Your Everyday Problems Conducted by Fred W. Hanburger


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Society Offers Medal for Outstanding Service, Oct., 85.

Pittsburgh Engineers Hold First Meeting of Season, Nov., 79.

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